☐ 1: T00349. Avicelase III - A...[gi:7493910] BLink, Domains, Links

```
LOCUS       T00349                   856 aa            linear   PLN 16-JUL-1999
DEFINITION  Avicelase III - Aspergillus aculeatus.
ACCESSION   T00349
VERSION     T00349  GI:7493910
DBSOURCE    pir: locus T00349;

            summary: #length 856 #molecular-weight 89820 #checksum 2843
            ;
            genetic: #gene aviIII
            ;
            superfamily: fungal cellulose-binding domain homology
            ;
            PIR dates: 01-Feb-1999 #sequence_revision 01-Feb-1999 #text_change
            16-Jul-1999
            .
KEYWORDS    .
SOURCE      Aspergillus aculeatus
  ORGANISM  Aspergillus aculeatus
            Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
            Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; Aspergillus.
REFERENCE   1  (residues 1 to 856)
  AUTHORS   Arai,M., Takada,G., Kawaguchi,T. and Sumitani,J.
  TITLE     Direct Submission
  JOURNAL   Submitted (~JUN-1998) to the EMBL Data Library
FEATURES             Location/Qualifiers
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                     /db_xref="taxon:5053"
     Protein         1..856
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     Region          823..854
                     /region_name="domain"
                     /note="fungal cellulose-binding domain homology #label
                     FCB"
ORIGIN
        1 marsslallc aallgklada aasqaytwkn vvtgggggft pgivfnpsak gvayartdig
       61 gayrlnsddt wtplmdwvgn dtwhdwgida latdpvdtdr vyvavgmytn ewdpnvgsil
      121 rstdqgdtwt etklpfkvgg nmpgrgmger lavdpnknsi lyfgarsghg lwkstdygat
      181 wsnvtsftwt gtyfqdssst ytsdpvgiaw vtfdstsgss gsatprifvg vadagksvfk
      241 sedagatwaw vsgepqygfl phkgvlspee ktlyisyang agpydgtngt vhkynitsgv
      301 wtdisptsla styygyggls vdlqvpgtlm vaalncwwpd elifrstdsg atwspiwewn
      361 gypsinyyys ydisnapwiq dttstdqfpv rvgwmveala idpfdsnhwl ygtgltvygg
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Revised: August 5, 2002.

Feb 19 2003 14:49:48

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NEWS 8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 9	Jun 03	New e-mail delivery for search results now available
NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
NEWS 12	Jul 02	FOREGE no longer contains STANDARDS file segment
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NEWS 46 Feb 24 TEMA now available on STN
NEWS 47 Feb 26 NTIS now allows simultaneous left and right truncation
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  41 FILES SEARCHED...
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L1          14 EXOGLUCANASE (4A) (CELLULOLYTICUS OR ACIDOTHERMUS)

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  17 FILES SEARCHED...
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L2         201 EXOGLUCANASE (4A) (PURIFY OR PURIFICATION OR PURIFIED OR ISOLATE
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  64 FILES SEARCHED...
L5       23379 (AVICEL OR CELLULOSE) (2A) COLUMN

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  47 FILES SEARCHED...
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L6           2 L4 AND (ARGINE OR DIPOLAR OR L5)

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DN 0084315
TI **COLUMN CELLULOSE** HYDROLYSIS REACTOR: CELLULASE ADSORPTION PROFILE.
AU TAN L U L; YU E K C; MAYERS P; SADDLER J N
CS BIOTECHNOL. CHEM. DEP., FORINTEK CANADA CORP., 800 MONTREAL ROAD, OTTAWA, CANADA K1G 3Z5.
SO APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, (1986) VOL.25, NO.3, P.256-261.
FS NONUNIQUE
LA ENGLISH
AB A **column cellulose** hydrolysis reactor was set up using a single passage of cellulase enzyme which was followed with a continuous percolation of buffer. Hydrolysis rates were found to decline precipitously upon the removal of the non-adsorbed cellulase components. By comparing specific activities of the cellulase before and after adsorption on the **cellulose column**, it was concluded that the adsorption efficiencies for the cellulase components decreased from exoglucanase (1,4-.beta.-D-glucan cellobiohydrolase EC 3.2.1.91) to endoglucanase (1,4-(1,3:1,4)-.beta.-D-glucan 4-glucanohydrolase, EC 3.2.1.4) to .beta.-glucosidase (.beta.-D-glucoside glucohydrolase, EC 3.2.1.21). Of the adsorbed cellulase components, the rate of endoglucanase leaching from the cellulose columun was 20 times, that for the exoglucanase despite the greater adsorption efficiency of the latter. By analysing the cellulase components which were found and not bound by the **cellulose column** and comparing them with a **purified exoglucanase** enzyme on sodium dodecyl sulfate polyacrylamide gels, it was confirmed that the major cellulase component adsorbed to the **cellulose column** was an exoglucanase component. The resultant loss of other cellulase components from the reactor was probably the cause for the much reduced rate of cellulose hydrolysis when these components were flushed out of the column.

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TI Characterization of exoglucanase and synergistic hydrolysis of cellulose in Clostridium stercorarium;
enzyme isolation and purification
AU Creuzet N; Berenger J F; Frixon C
LO Laboratoire de Chimie Bacterienne, C.N.R.S. B.P. 71, 31 Chemin Joseph Aiguier, 13277 Marseille Cedex 9, France.
SO FEMS Microbiol.Lett.; (1983) 20, 3, 347-50
CODEN: FMLED7
DT Journal
LA English
AB A cellobiohydrolase component was isolated from the anaerobic thermophilic cellulolytic bacterium Clostridium stercorarium. The microorganism was grown at 60 deg in a medium containing Walseth cellulose obtained from MN300 cellulose. After 40 hr the culture was centrifuged and the supernatant was filtered through glass fiber disks before precipitation with ammonium sulfate. The enzyme, assumed to be **exoglucanase**, was **purified** by DEAE-Trisacryl **column** chromatography. Walseth **cellulose** was partially hydrolyzed by the enzyme and the soluble products found after 72 hr of incubation with this substrate were identified by HPLC analysis. The major product of hydrolysis was cellobiose. When combined with endoglucanase the enzyme allowed an extensive hydrolysis demonstrating a marked synergism in the action of those 2 components. The addition of beta-glucosidase (EC-3.2.1.21) gave a further increase in activity. (18 ref)

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